

## **Effect of vibratory stimulation of foot support areas in rats on the functional state of leg muscles and the content of N2A titin isoforms in gravity relief**

Baltina T., Kuznetsov M., Yeremeev A., Baltin M.  
*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

---

### **Abstract**

In this work, we studied the effect of vibratory stimulation of the foot support zones on the functional state of the leg muscles and the content of N2A titin isoforms in rats under simulated microgravity (suspension model). The results of this study showed that vibratory stimulation of the support zones of the rat foot in a gravity discharge may reduce the drop in the amplitude of leg muscle motor response and undesirable reduction of the titin content. © 2014 Pleiades Publishing, Inc.

<http://dx.doi.org/10.1134/S0006350914020031>

---

### **Keywords**

gravitational unloading, motor response, N2A titin isoforms, receptors of support zones, suspension model, vibratory stimulation